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GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
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MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
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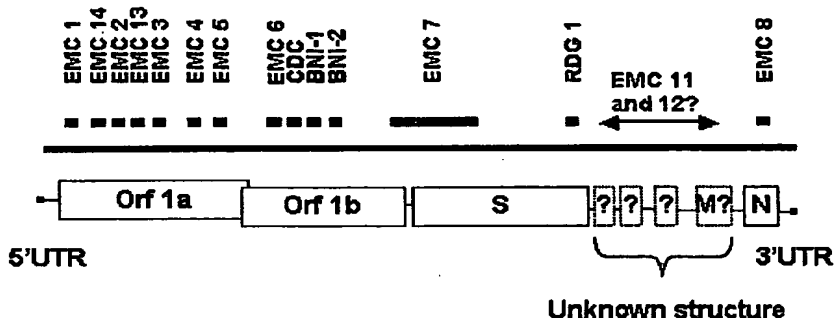
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ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: SEVERE ACUTE RESPIRATORY SYNDROME (SARS) CAUSING CORONAVIRUS



(57) Abstract: The invention relates to the field of virology. The invention provides an isolated essentially mammalian positive-sense single stranded RNA virus (SARS) within the group of coronaviruses and components thereof. The effect of pegylated interferon-alpha on SARS infection has been analysed.

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A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	C07K14/165	C12N15/85	C12N5/10	C07K16/10	C12Q1/70
	G01N33/569	A61K39/215	A61K38/21	A61P31/14	
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
IPC 7	A01K	C07K	C12N	A61K	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)					
EPO-Internal, WPI Data, Sequence Search, BIOSIS, EMBASE					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.
X	<p>POUTANEN SUSAN M ET AL: "Identification of severe acute respiratory syndrome in Canada."</p> <p>NEW ENGLAND JOURNAL OF MEDICINE, vol. 348, no. 20, 31 March 2003 (2003-03-31), pages 1995-2005, XP002255633</p> <p>ISSN: 0028-4793</p> <p>page 2002, left-hand column, paragraph 3 - right-hand column, paragraph 3</p> <p>-----</p> <p>--/--</p>				1-27
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.					
* Special categories of cited documents : <div style="display: flex; justify-content: space-between;"> <div> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*Z* document member of the same patent family</p> </div> </div>					
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27 October 2004			25/11/2004		
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CENTERS FOR DISEASE CONTROL AND PREVENTION: "Update: Outbreak of severe acute respiratory syndrome: Worldwide, 2003." MORBIDITY AND MORTALITY WEEKLY REPORT, vol. 52, no. 12, 28 March 2003 (2003-03-28), pages 241-248, XP002288825 ISSN: 0149-2195 page 243, paragraph 2	1-27
P,X	DATABASE EMBL E.B.I. HINXTON, UK; 15 April 2003 (2003-04-15), S. JONES: "SARS Coronavirus TOR2, complete genome" XP002288827 retrieved from EMBL Database accession no. AY274119 EMC-1=nts 2064-2932;2=4820-5166;3=8480-8928;4=9954-10633;5=nts12194-13525;6=nts 13877-14648;7=nts 20665-23772;8=nts 28228-28590;11=611-2091;12=4325-4770;13=6338-7171;14=3579-4315;RDG1=24439-25090 abstract	1-27
P,X	SNIJDER E J ET AL: "Unique and Conserved Features of Genome and Proteome of SARS-coronavirus, an Early Split-off From the Coronavirus Group 2 Lineage" JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 331, no. 5, 29 August 2003 (2003-08-29), pages 991-1004, XP004447471 ISSN: 0022-2836 the whole document	1-27
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GERBERDING JULIE LOUISE: "Faster... but fast enough? Responding to the epidemic of severe acute respiratory syndrome." THE NEW ENGLAND JOURNAL OF MEDICINE. 15 MAY 2003, vol. 348, no. 20, 2 April 2003 (2003-04-02), pages 2030-2031, XP002288826 ISSN: 1533-4406 the whole document	1-27
A	EP 0 278 541 A (DUPHAR INT RES) 17 August 1988 (1988-08-17) the whole document	1-27
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X	PEI JIANWU ET AL: "Chicken interferon type I inhibits infectious bronchitis virus replication and associated respiratory illness" JOURNAL OF INTERFERON AND CYTOKINE RESEARCH, vol. 21, no. 12, December 2001 (2001-12), pages 1071-1077, XP002302419 ISSN: 1079-9907	28,29, 33,34, 36,40
Y	abstract	30-32, 35, 37-39, 41,42
X	SMITH A L ET AL: "INTRANASALLY ADMINISTERED ALPHA-BETA INTERFERON PREVENTS EXTENSION OF MOUSE HEPATITIS VIRUS STRAIN JHM INTO THE BRAINS OF BALB-CBYJ MICE" ANTIVIRAL RESEARCH, vol. 8, no. 5-6, 1987, pages 239-246, XP008037792 ISSN: 0166-3542	28,29, 33,36,40
Y	page 242	30-32, 35, 37-39, 41,42

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TURNER R B ET AL: "PREVENTION OF EXPERIMENTAL CORONAVIRUS COLDS WITH INTRANASAL ALPHA-2B INTERFERON" JOURNAL OF INFECTIOUS DISEASES, vol. 154, no. 3, 1986, pages 443-447, XP008037795 ISSN: 0022-1899	28, 29, 31, 33-35, 40
Y	figure 1 table 1	30, 32, 36-39, 41, 42
P, X	HAAGMANS BART L ET AL: "Pegylated interferon-alpha protects type 1 pneumocytes against SARS coronavirus infection in macaques." NATURE MEDICINE, vol. 10, no. 3, March 2004 (2004-03), pages 290-293, XP002302418 ISSN: 1078-8956 the whole document	28-42
P, X	ANONYMOUS: "Viragen files patent application for drug to target SARS" INTERNET ARTICLE, 'Online! 2 June 2003 (2003-06-02), pages 1-2, XP002302417 Retrieved from the Internet: URL: http://www.amarbio.com/10News56.html > 'retrieved on 2004-10-25!	28, 29, 33, 34, 40-42
Y	the whole document	30-32, 35-39
P, X	STRÖHER UTE ET AL: "Severe acute respiratory syndrome-related coronavirus is inhibited by interferon- alpha." THE JOURNAL OF INFECTIOUS DISEASES. 1 APR 2004, vol. 189, no. 7, 1 April 2004 (2004-04-01), pages 1164-1167, XP008037651 ISSN: 0022-1899 the whole document	28, 29, 31, 33-35, 37, 40
P, Y	V KURIAN: "Can coconut drive SARS to nuts?" INTERNET ARTICLE, 'Online! 20 May 2003 (2003-05-20), page 1, XP002302422 Retrieved from the Internet: URL: http://www.blonnet.com/2003/05/20/stories/2003052000241700.htm > 'retrieved on 2004-10-25! paragraph '0004!	42
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MASCI PAUL ET AL: "New and modified interferon alfas: preclinical and clinical data." CURRENT ONCOLOGY REPORTS. MAR 2003, vol. 5, no. 2, March 2003 (2003-03), pages 108-113, XP008037765 ISSN: 1523-3790 the whole document</p>	30-32

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 21, 22 and 40-42 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0278541	A	17-08-1988	DK 13988 A	17-07-1988
			EP 0278541 A1	17-08-1988
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